

AP20 Rec'd PCT/PIC 26 JUL 2006  
EPO-DGInternational application PCT/NL2005/000060  
enclosure to letter dated 21-07-2005

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21 07. 2005

## NEW CLAIMS

(76)

1. Method for detecting the possible presence of contamination of a container with a decorative exterior, for instance provided with labelling and/or relief patterns, for liquids such as a drink such as beer, comprising steps for:
  - irradiating the container with radiation with at least a first wavelength by means of irradiating means,
  - determining the orientation of the container relative to first recording means,
  - making use of radiation comprising at least a second wavelength,
  - recording by means of recording means a radiation sample of the radiation after the radiation has passed through at least a part of the container, and
  - making a recording by means of second recording means with a sensitivity to the second wavelength,
  - determining the possible presence of contamination by comparing the sample to a predetermined reference matching the orientation of the container relative to the recording means, and
  - approving or rejecting the container.
2. Method as claimed in claim 1, wherein the containers are transported by means of a conveyor past the irradiating means and the recording means.
3. Method as claimed in claim 1 or 2, wherein the sample comprises an image recording and the reference comprises a reference image.

4. Method as claimed in claim 1, 2 or 3, wherein two recording means make a recording of the container at a predetermined angle relative to the container.

5 5. Device for detecting the possible presence of contamination of a container with a decorative exterior, for instance provided with a labelling and/or relief patterns, for liquids such as a drink such as beer or a soft drink, comprising:

10 - first irradiating means for irradiating the container with at least a first wavelength,

- second irradiating means for emitting radiation of at least a second wavelength,

.15 - recording means for recording a radiation sample of radiation during interaction of the radiation with at least a part of the container,

- orientation determining means for determining the orientation of the container relative to the first recording means,

20 - comparing means for comparing the sample to a predetermined reference matching the orientation of the container relative to the first recording means during the recording, and

- second recording means for determining by means of 25 a second recording the orientation of the container relative to the first recording means on the basis of the mutual positions and orientations of the first recording means, the second recording means and the container.

30 6. Device as claimed in claim 5, wherein the orientation determining means comprise recording means for making one or more the time of recording(s).

7. Device as claimed in claim 5 or 6, comprising filter means for making recordings in optically independent manner with the recording means on the basis of radiation of the first or of the second wavelength.

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8. Device as claimed in claim 5, 6 or 7, comprising polarizing means for polarizing radiation of the first and/or the second irradiating means.

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9. Device as claimed in any one of claims 5-8, wherein the first radiation sources are positioned behind the container relative to the container during making of the recording wherein the radiation irradiates the container.

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10. Device as claimed in any one of claims 5-9, comprising selecting means for selecting a part of the recording of a part of the container as assessment part, on the basis of which part the assessment is carried out.

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11. Device as claimed in any one of claims 5-10, wherein the recording means comprise at least one camera.

12. Device as claimed in any one of claims 7-11, wherein the filter means comprise an optical filter.

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13. Device as claimed in any one of claims 7-12, wherein the filter means comprise an electronic filter.

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14. Device as claimed in any one of claims 5-13, further comprising composing means for composing, on the basis of the first and/or second radiation sample and/or predetermined parameters, a robust reference image or a reference image with permissible deviation values, on the

basis of which image acceptable deviations in the decorative exterior within a series of containers can be taken into account during selection of containers.

5        15. Device as claimed in any one of claims 5-14, comprising processing means for producing, on the basis of the radiation sample or the assessment part, a flat representation thereof.

10        16. Device as claimed in any one of claims 5-15, wherein the first comparing means are embodied in order to compare the flat representation to the robust reference image.

15        17. Device as claimed in any one of claims 5-16, comprising second comparing means for comparing a recording of the second recording means to a second reference image or robust reference image for the purpose of detecting deviations on the decorative exterior.

20        18. Device as claimed in any one of claims 5-17, wherein the orientation determining means determine the orientation on the basis of the recording of the second recording means.

25        19. Device for detecting the possible presence of contamination of a container with a decorative exterior, for instance provided with a labelling and/or relief patterns, for liquids such as a drink such as beer, comprising:

30        - irradiating means for irradiating the container substantially from the top or the bottom with at least a first wavelength,

- recording means for recording a radiation sample of radiation after it has passed through at least one wall part of the container,

5 - comparing means for comparing the sample to a predetermined reference of the container relative to the first recording means during the recording.

20. Device as claimed in claim 19, comprising measures as claimed in one or more of the claims 2-16.